

What is claimed is:

1. A polymerization initiator paste composition comprising:

(A) an organoboron compound, and

5 (B) particles having an average particle diameter of 0.001 to 50 μm and inert to the organoboron compound (A), in an amount of 4 to 400 parts by weight based on 100 parts by weight of the organoboron compound (A),

said paste composition having a consistency, as
10 measured at 25°C under a load of 300 g in accordance with a method defined in ISO4823, of 15 to 100 mm.

2. The polymerization initiator paste composition as claimed in claim 1, wherein the organoboron compound
15 (A) is liquid at 25°C.

3. The polymerization initiator paste composition as claimed in claim 1, wherein the organoboron compound (A) is trialkylboron or a partial oxide thereof.
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4. The polymerization initiator paste composition as claimed in claim 1, wherein the particles (B) are polymer particles which are inert to the organoboron

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compound (A) and are insoluble but homogeneously dispersible in the organoboron compound (A).

5. The polymerization initiator paste composition as claimed in claim 1, wherein the particles (B) are metal oxide particles having an average particle diameter of 0.001 to 10 μm and inert to the organoboron compound (A).

10 6. The polymerization initiator paste composition as claimed in claim 1, wherein the particles (B) are mixtures of fine particles (b1) having an average particle diameter of not less than 0.001 μm and less than 1 μm and particles (b2) having an average particle
15 diameter of 1 μm to 50 μm .

7. The polymerization initiator paste composition as claimed in claim 1, which is contained in a sealed container having impermeability to air and water vapor
20 and having a nozzle that is capable of extruding the polymerization initiator paste composition and has a nozzle tip inner diameter of 0.4 to 4 mm and a nozzle length of 2 to 50 mm.

8. The polymerization initiator paste composition as claimed in claim 7, wherein the container having impermeability to air and water vapor is a tube or a syringe.

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9. A dental or surgical adhesive comprising:
a polymerization initiator paste composition which comprises:

(A) an organoboron compound, and

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(B) particles having an average particle diameter of 0.001 to 50 μm and inert to the organoboron compound (A), in an amount of 4 to 400 parts by weight based on 100 parts by weight of the organoboron compound (A), and

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has a consistency, as measured at 25°C under a load of 300 g in accordance with a method defined in ISO4823, of 15 to 100 mm,

and

(C) a polymerizable monomer which is packaged
20 separately from the polymerization initiator paste composition.

10. The dental or surgical adhesive as claimed in claim 9, wherein the organoboron compound (A) is trialkylboron or a partial oxide thereof.

5 11. A dental or surgical adhesive kit comprising:
a first container filled with a polymerization
initiator paste composition which comprises:

(A) an organoboron compound, and

(B) particles having an average particle
10 diameter of 0.001 to 50 μm and inert to the organoboron
compound (A), in an amount of 4 to 400 parts by weight
based on 100 parts by weight of the organoboron compound
(A),

has a consistency, as measured at 25°C under a load
15 of 300 g in accordance with a method defined in ISO4823,
of 15 to 100 mm, and

is extrudable from the container,

and

a second container filled with a polymerizable
20 monomer (C) which is contained separately from the
polymerization initiator paste composition.

12. The dental or surgical adhesive kit as claimed
in claim 11, wherein the first container can contain the

polymerization initiator paste composition without substantially bringing the paste composition into contact with air and water vapor and has a nozzle capable of extruding the polymerization initiator paste composition and having a nozzle tip inner diameter of 0.4 to 4 mm and a nozzle length of 2 to 50 mm.

13. The dental or surgical adhesive kit as claimed in claim 12, wherein the nozzle tip inner diameter of the first container is in the range of 0.5 to 3 mm.

14. The dental or surgical adhesive kit as claimed in claim 11, wherein the organoboron compound (A) is trialkylboron or a partial oxide thereof.

15. The dental or surgical adhesive kit as claimed in claim 11, wherein the polymerizable monomer has a consistency equal to that of the polymerization initiator paste composition.